

PARTIAL TRANSLATION OF JP 2002234763

(54) [Name of the patent] Concrete Admixture

(57) [Abstract]

[Challenges]

We provide concrete admixture which reduces black dirt on the concrete surface,
without any loss of concrete strength.

[Solutions]

Concrete admixture containing one or more surfactants.

The surfactant can be non-ionic surfactant with HLB 17.5-19.5 containing
15-200 ethylene oxide groups per one molecule,
or anionic surfactant containing 15-200 ethylene oxide groups per one
molecule.

[Range of the patent]

[Claim 1]

Concrete admixture containing one or more surfactants.

The surfactant can be non-ionic surfactant with HLB 17.5-19.5 containing
15-200 ethylene oxide groups per one molecule,
or anionic surfactant containing 15-200 ethylene oxide groups per one
molecule.

[Claim 2]

Concrete admixture described in Claim 1 of which the surfactant is alkyl
poly(ethylene oxide) with 10-30 carbon atoms,
or its sulfate or carboxylate, and alkylphenyl poly(ethylene oxide) with
6-20 carbon atoms.

[Claim 3]

Hydraulic composition consisting of hydraulic compound, one or more of
blast-furnace slag, fly ash, and silica fume,
and concrete admixture described in Claim 1 or 2.

[Claim 4]

Hydraulic composition described in Claim 3 for which the ratio of the
concrete admixture to the hydraulic compound is 0.00001-0.1
w%.

[Claim 5]

Production method of hardened concrete which uses hydraulic composition
consisting of hydraulic compound, one or more of
blast-furnace slag, fly ash, and silica fume, and concrete admixture
described in Claim 1 or 2 whose amount is 0.00001-0.1 w% of the
hydraulic composition.